

Opportunity Title: H2 LDES Demo Project Faculty Fellowship

Opportunity Reference Code: NREL-FACES-2025-0005

Organization National Renewable Energy Laboratory (NREL)

Reference Code NREL-FACES-2025-0005

Application Deadline 3/15/2025 11:59:00 PM Eastern Time Zone

Description The goal of the FACES program is to empower science technology, engineering, and math (STEM) faculty from emerging research institutions (including associates, baccalaureate, masters, and R2 doctoral granting institutions) by equipping them with enhanced research skills and expertise in clean energy science.

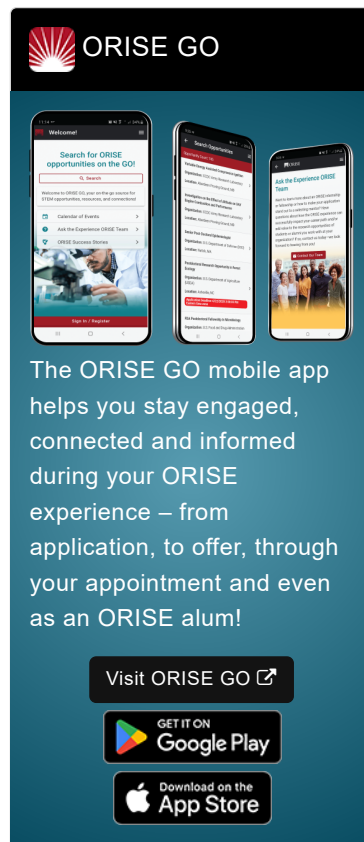
FACES is a 10-week summer program that provides faculty with the opportunity to collaborate with NREL researchers and develop scalable education modules on topics like community engagement, human behavior, energy and environmental science, and artificial intelligence. The first eight weeks will be spent at NREL in an immersive environment with an NREL staff researcher/mentor. The final two weeks will be conducted virtually to prepare a final deliverable. A Customized Learning Solution (CLS) will be the culminating milestone of the research experience with the intent for your hosting NREL mentor to travel to your institution and deliver the CLS to your class.

This opportunity includes 8-week onsite research conducted at the NREL's Golden Field Office or Flatirons campus under the FACES program (Faculty-applied Clean Energy Science). The faculty will be collaborating with researchers in the Hydrogen Long Duration Energy Storage (LDES) for Resilience Project scope where the specific research questions to be answered will be discussed and agreed upon before the start of the faculty. The H2 LDES Demo for Resilience project aims at demonstrating and simulating end-to-end performance of hydrogen storage system powered by grid or/and renewables to continuously discharge power for 24+ hours as one possible replacement solution for back-up diesel generators. The faculty will collaborate closely with the team and contributing to a multi-cultural environment. The areas of research could include but are not limited to: Investigating direct renewables integration with hydrogen systems. Simulation of energy source – hydrogen systems integration. Fuel cell electricity generation response investigation Integrating learnings into curriculum development: Development of a lesson from the learning experience. Publication idea with findings where publication can be published after the fellowship has ended.

Participation requires a commitment to the full ten-week program (June 2 through August 8, 2025).

Selected faculty participants will receive a weekly stipend of \$1,800 for the ten-week program (paid biweekly). Selected faculty may also be eligible to receive a \$500 inbound/outbound travel reimbursement.

Deadline: March 15, 2025

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A complete application includes:

- All required fields in both the Zintellect profile and Zintellect application form, including Current Curriculum Vitae (include list of any papers, presentations, or publications)
- Two References submitted through Zintellect
- Customized learning solution abstract (150 words) showing how the proposed project will align with and be integrated into your current course load. References to one of the four FACES pillars preferred: Human Behavior (1), Community Engagement (2), Environmental Science (3), Energy Transition and Artificial Intelligence (4). (Learning solution only requires alignment with a single course)
- Personal statement
 - Provide a personal statement indicating your interest in renewable energy research, desire to bring current research into the classroom, and any other relevant information you feel would help inform our decision.
- Submitted documents must have all personal identification numbers, and/or dates of birth removed (blacked out, blackened out, made illegible, etc.) prior to uploading into the application system.

The selected applicants will be responsible for providing the following deliverables as part of their appointment:

- Pre-Survey
- Project Summary Abstract and Presentation to the research group
- Customized Learning Solution (CLS)
- Post-Survey

The deliverables that selected applicants provide will need to include information on the eight weeks at NREL and the final two virtual weeks spent preparing for the final deliverable focusing on the Customized Learning Solution (CLS).

Qualifications You must meet the following to be eligible to apply:

- Must be a United States Citizen or Lawful Permanent Resident at the time of applying.
- Be a current (2024-25 academic year) faculty member from an eligible non-R1 institution including eligible Community Colleges, as categorized by the [Carnegie Classification](#).
- Be recognized as full-time faculty by your institution, not holding "adjunct" or "visiting" designations.



Additional eligibility factors:

- Have coverage under a health insurance plan before arriving at the appointment site and maintain coverage during the appointment.
- Have interest in a specific NREL [area of research](#).

Point of Contact [Abby](#)

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- Eligibility Requirements**
- **Citizenship:** LPR or U.S. Citizen
 - **Degree:** Doctoral Degree.
 - **Discipline(s):**
 - **Engineering** (2 )
 - **Mathematics and Statistics** (1 )

Affirmation I am a U.S. citizen or Lawful Permanent Resident and am currently a faculty member in good standing from an eligible non-R1 institution including eligible Community Colleges, as categorized by the [Carnegie Classification](#) in the United States.